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Letters

RAGON Contents

Arcade addiction

The Numbers Game 15

Software Review

Adventure Trail Dragon Answers

Moon Miner

Competition Corner 34

Editorial

DRAGON SOFTWARE will become increasingly more difficult to first in Webster's Softwere, one of the country's leading distribution com-As more and more new micros appear in the abook, these will be less. and less space to provide software for those machines that have been discontinued - even if, like the Dragon, they come back to life equin. Obviously Websters — and other companies — no longer believe that

Similarly, it is becoming increasingly more difficult for people to find reneir facilities A creat many offserwise lovel Dragon payers will be forced to desert the However reliable the Dragon and the 6809 (hip is, machines do break --Franchised has an egyptopod plants for the future which include the recoving of wonderful new mechines. The Dragon MSX machine at least has

that the existing Dragon user base in the UK can survive by grasnising a chain of regain agents? There are still many people out there with Dragons. The circulation of this magazine alone should be proof of that. There are still planty of very impressive products being put out as well

If would be a shame — more, a tragedy — if the Dreson colleged spain because there was no one to put them back together again.

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Mondership of the cools (5.50 per per luther information can have Once Software, 64 Street, Rochdele, Lance St.)

Printer Control now makes the Dragies, coeforms to the saual MIXX standards.

It will be marketed in Europe by Curshard, who took over the MSX licenses originally granted to Dragies Data and GEC. Ho details us price have been released yet.

As a standard MSX

Dragon

THE DRAGON MSX

machine. It will all desirate use the 250 processor and will be totally becompatible with axiating Dragon machines.

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June 1965 Disson User 11

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Connection of the delta 14b 144 interface. This plugs into with an external lead running to one of the joystick ports. No Dilline the full potential of your delta

ellinges shades; scroll up or repeat shapes: plus two sizes of

Unlike ordinary computer aided design renorment C.A.D. 32 is really easy to use.

menu which allows full use of

while your Dragon does the hard work. The screen dumps shown here were all produced with C.A.D. 32 using the delta (Project X was designed and produced within 90 minutes) Pinished or part finished disk and reloaded for printing or amendment. There is insufficient space here to



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The numbers game

with a disassembler program for beginners

deter? work, you can work through the starting and hopefully cornect it. What has pean, however, when you come access machine code articles? The ability to startistic machine code values into meaningful restructions is in valuable; should a machine code article col appear to work, to be after to cross all the accessing of the entered program these, and immortants labelliness can be

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Inputting the disassembler code
The problem with any disassembler is sheer minimum size. To combat this put is terms of keeping the article seasons short and assisting as much as constitution.

short and assisting as much as possible with the accusacy of program entry fire DEARSSEMBLER is supplied as a HEX DUMP with a Chelchouth faith enter the program of layers. A checksom has many derivations. This one is simple the sum given and extend in decimal, of the sup proceed to the program of the program of the program of the program of SMM [Internal of the procedure].

allows space for BASSC at the lower and and is also well below the area normally used for machine code.

Using HEXLOADR (listing 1) input the starting address for the code to be entered — 12001 or the nestant point if

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PLON and input the marked restart por the start address.

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> tot up and display each is total. In this phase, once iorepancy, -A- will re-RUN program (press any other



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Program notes

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1,PSET,BP 739 COLOR 3:LINE (0,144) - (54,146),PSET, CRT,CRT:LINE (72,144) - (235,146),PSET, FA 74 COLOR 3:LINE (0,100) - (254,190), PSET,BT 756 COLOR 3:LINE (236,56) - (236,190),PSET, PSET,BT 7-66 COLOR 3:LINE (0,40 - (254,190),PSET,BT 7-66 COLOR 3:LINE (0,40 - (254,190),PSET,BT 7-66 COLOR 3:LINE (0,40 - (254,190),PSET,BT 7-66 COLOR 3:LINE (0,40 - (254,190),PSET,BT

ET.B 770 5-4:R+33 700 FOR R+33 TO 48 STEP 5 790 FUT 15,R) - (5+13,R+5) ,LB,PSET 000 NEXT 8 810 R+33 920 FUT 16X,DY) - (0X+13,DY+21) ,SR,PS

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946 TIMER-0 956 JAS-JOYSTK-180 956 DZEC 30015 976 TI-TIMER 900 IF JG-031 THEN GOSUB 1620 970 IF JG-031 THEN GOSUB 1620 170 JG-031 THEN GOSUB 1630 1000 IF JG-031 THEN GOSUB 1630 970 JG-031 THEN GOSUB 1630

930 REM MAIN LOOP

1020 IF LD=161 THEN G09UB 1220

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1060 RETURN 1070 REM+*TIME UP 1000 XX-35*YY+00:45*-"LUNCH BRDAK VER"-DRAW'C350":GDSUB 2410 1070 FOR GHO TO 4:EDEC 20100:NEXT

0 1100 FOR T=0 TO 500:NEXT T 1110 A1=SC:CLS RND 00:PRINTE39,"FI NAL SCOKE WAS":SC; 1120 IF A1346 THEN PRINTESO,"":IN PUT "YOUR NAME":20 EUE: 1190 1130 IF A1342 THEN A6-45145-A4-

IF A1746 THEN A6745:A5746:A6461:F =-E8:E8-D8:D8-Z8:GOTO 1156 1140 IF A1745 THEN A6745:A5141:F8-E8:E8-Z8:GOTO 1150 EL8E A6-A1:F8-Z 8 1150 PRINTB170.A2787 TE::P0INTB

1150 PRINTBLT0, A2'BY " T\$: PRINTB 204. A3: "BY "C\$: PRINTB20, A4: TBY ";08; PRINTB362, A5: TBY ";E\$; PRI NTB426, A6: "BY ";F\$: 1160 PLAY OZTSVISOUIGO/SCPIGGVISFV

1168 PLAY OZTSVISCVIECVSCPIERVISFV IRVSFPZRAVISEVISEVSEPZRAVISAVIRAV SKVISFVIERVSFPZRAVISAVIRAVSAOSPIRA VISCVIECVSCVZC** 1178 PRINTE486, "ANOTHER SAME CY/NO

1100 AS-INCLYS:IF AS-"Y" THEN FOR W-1 TO 32:EDSC 30150-NEXT W-PMODED 1:00TO 1400 1190 IF AS-"N" THEN CLS:END

1200 9070 1180 1210 987 ***BONUS 1220 976 9-1 TO 3 1230 XX+45:YY+65:AB="BONUS BONUS": DBGWT0AG": GODIB 2410

1246 DNEC 20100 1256 XXX-45:YY-65:AB="BONUS BONUS": DRAWTC188":BOBUB 2010 1260 NEXT 0 1270 BO-INT105200-TIJ/500

1298 90-90-1 1398 90-90-1 1398 PSEC30188 1318 PSEC30189 1318 PSEC30189 1320 200-60:YY-2:As-STRB GC: DBSEC

1000 NENT T 1040 IF SC>HI THEN HI=8C:80T0 1060 1050 GOTO 1000 1360 PUT [1217, 1) - (247, 151, 88, PSET 1070 NK-215:YY-3:AS-STR9 0HJ:0RAW* C250":GOSUB 2418 1398 GOTO 1898 1398 SEN+60 AGAIN 1488 PCOPY 5 TO 1:PCOPY 6 TO 2:PCO PY 7 TO 3:PCOPY 8 TO 6

PY 7 TO 3-PCOPY 8 TO 4 1418 IF SCHI THEN HI-SC 1428 004-18-0Y-165-SC-8:L-8:Z-8:R-3 3-L0-101 1430 TIMER-8 1440 GOTO 878 1450 REN-PICK UP LUNCH BOX

1446 IF L=0 THEN PUT 15; N = 05-13; R: 5 NO, PERT 1601ND 299, 31 PUT 15; R3 = 05-12; R>5 NO, PERT 1601ND 299, 31 PUT 16; R3 = 05-12; R>5 NO, PERT 18-R+95; PUT 166; L1 = 14-26; R9-150; R9-151; R9-151

1400 PUT (DX,DY) = (DX+13,DY+21), (BL, P SET 1490 L=1:DX+25 1500 RCTURN 1510 RCH+400WN LIFT 1520 PUT (DX,DY) = (DX+13,DY+21), (BL,P GET

SET 1530 DX-DX+16 1540 PUT DX, DY) = DX+13, DY+21) , SR, P SET 1550 DY-DY+4 1550 PUT DX, DY+0 = DX+13, DY+17) , MI

.PRET 1570 IF 0Y>=165 THEN 1590 1500 GOTO 1540 1590 IF 0Y>=165 THEN PUT (0X,0Y) = 0 X=12,0Y=211,80,PRET:0X=0X=10:0Y=16 5 1600 IF 9C>0 AND L=1 THEN PUT GLLD

1-89-13,LD+4),LB,PSET;LD+LD-5:2=1; L=9:RETURN 1610 REM=MOWE RIGHT 1620 PUT IDX,DV1-80X+13,DV+21),BL,P SET 1620 DV4DV40

1698 RSM UP RIGHT 1700 PUT DOX, DYY - BOX+13, DY+21) , BL, P SET 1710 FOR Y+0 TO 1-EMBC 30015:NEXT T

T 1720 PUT 0X.DY-150 - 0X+13.DY+61.588 .P98T 1730 IF PPOINT 0X+7.DY-180 <>1 THEN SOUR 10+0:PUT 0X.DY-170 - 0X+12.D

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Y+60 .BL . PSET : PUT (DX , DY) - (DX+12 , DY+ 211 - SR PSET : RETURN 1750 DY-DY-15 2200 DATA 16,89,85,253,253,101,102 1760 PUT 600, 0Y-380 - 600+13, 0Y-91 - 6P PRET 1779 PUT 00x,070 - 00x+13,07+211 01 P 1788 DY-DY-38 1020 DX+DX-B: IF DXC+3 THEN DX+3 1030 IF Z=1 AND DY>196 AND DOC=10 1940 PUT (DX, DY) - (DX+13, DY+21) . SL. P 1858 IF PEEK (65200) =126 OR PEEK (65 2880 +294 THEN 1070 ELSE RETURN 1869 REM UP LIDET 1999 PUT (DX, DY-15) - (DX+13, DY+6) - (I . PSET 1899 FOR THE TO 1-EMEC DEGIS:NEXT 2300 DATA 0,0,0,0,0,0,0,0,0,0,0,0,0 1988 IF PPOINT (DX+7,DY-18) <>1 OR P 2318 NEW DRAW STRING ROUTINE 2338 FOR K=8 TO 2618E00 LPS BO -NEV 2399 FOR KIR TO THEFAN NUMBER INC. 1910 PUT (DX, DY) - (DX+13, DY+21) , BL, P

1938 PUT (DX, DY-38) - (DX+13, DY-9) , SL 1968 PUT (DX, DY) - (DX+13, DY+21) . BL. P 2370 DATA DARSHUABRZ, NDAFRENDADRZ, 1950 DY+DY-30 1960 RETURN 2350 DATA NOAR202L2F2RIMBD2 DOAP31 1999 GET (5.8) - (18.21) -81 -8

1990 DOLG: GET (5, 8) - (18, 21) - N - G U28R2, DAEFUARES 2000 GOSUR 2100 2398 DATA DF200L2UE2U8R2, DFND2DUBR 2020 PCLS: GET (5,5) - (15,12) ,ML,G 2988 DATA NR204R2UNBR2, DDENO4BR2, R 202L202R28LMBR2, NR2B02NR2B02R2LMBB 2008 SUSUB 2100 2008 SET IB-00 - (13-50 - NO G 2418 DREW'SH'+STR# DOG +", "+STR# (VV) 2626 FOR K+1 TO LENGER 2090 REM BRAFICS

2110 FOR N=0 TO 2 RIGH NUM (WAL GREET) LISTED TO TAZE 2120 A+1536+N DAMA IF Dan" THEN NOT BLUE NORSE 2130 FOR 0+1 TO 24 (09) -64 2140 READ S: POKE A.S 2460 DRAW LEG DO

2488 RETURN

2440 IF DED="0" AND REC="9" THEN O



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